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NAVAL SUPPLY SYSTEMS COMMAND

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UNITED STATES NAVY SERIAL NUMBER TRACKING
SNT

SN
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www.snt.navsup.navy.mil

Ready. Resourceful. Responsive!

MATT MULLINS
LCDR, USN
APR 2003

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How SNT Got Started

UNITED STATES NAVY SERIAL NUMBER TRACKING
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Aviation Maintenance-Supply Readiness (AMSR) Review Tasking - 1998

Background/Overview

↓ Lower Maintenance & Supply Cost

↑ Increase Readiness

Result – Serial Number Tracking Initiative provi

- Retrograde Tracking & TAV

By T/M/S, Organization and time period

- Cannibalization data
- BCM statistics
- Top Cost Driver figures
- Reliability information

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System Concept

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Definition:

Closed-loop, cradle-to-grave tracking of maintenance critical, serialized components, providing asset visibility and material status, and enabled by automatic identification technology (AIT)

Plan:

Collect data through interfaces with various supply and maintenance systems and provide access to stakeholders via a Virtual Shared Data Warehouse

System Concept

Major Benefits

Maintenance

- Identify Maintenance Deficiencies
- Accurately Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Lo
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

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SNT Consists of Two Pillars

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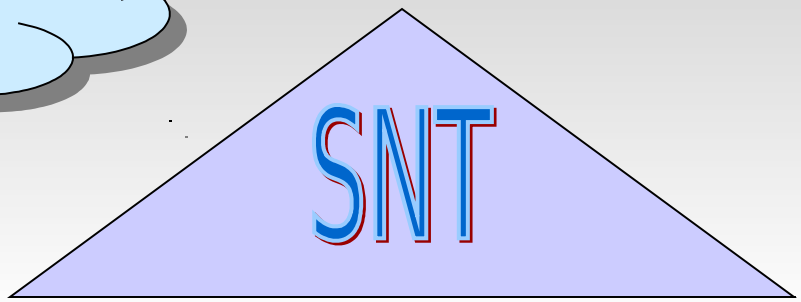
Implementation

SNT requires two components



FIRST

Live access to databases via the SNT Web-enabled portal.

Data Base Access

- WMRIL/A-ORS
- eRMS/WMPS
- UICP
- WEB-CAV
- CAV-ORM
- CAV-Navy
- FACTS
- OOMA/OIMA
- R-Supply
- IBS

AIT

- CMB
- 2D Data matrix
- 2D PDF417
- ISO15418/15434
- MILSTD129
- MILSTD130
- MSL
- IRRD

SECOND

Automatic Identification Technology (AIT) is used by the SNT to maintain data accurac

Aviation Asset/Information Flow

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UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

Information Systems

System Access

Carcass Screening
Transshipment

Carcass Shipment

ATAC
Hub / Node
Web-MRIL / A-ORS

ATAC DB

UICP

NRFI Inventory

DDD/ FISC

Navy/CAV

ASD

FACTS
WMPS
eRMS

OOMA
OIM
A

I-Level

Retail Sector

NALCOMIS (O)
Top Tier
LMDSS (I)
DMDS (D)

OOMA

'O' Level

NALCOMIS
Foundation Tier

Web-enabled

SNT System

Depot Repair

Organic CAV-ORM

Inter Service

Commercial CAV

NSWC Crane ILSMIS

UICP

STS/GTN/ LCAV

GTN

Navy\CAV

DDD/ FISC

RFI Wholesale Inventory

Wholesale Sector

Connected w/SN ------- No SN Not Asset Flow

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CMB/Bar Code

P/N 50-100-01
S/N 0152
MFR K0656

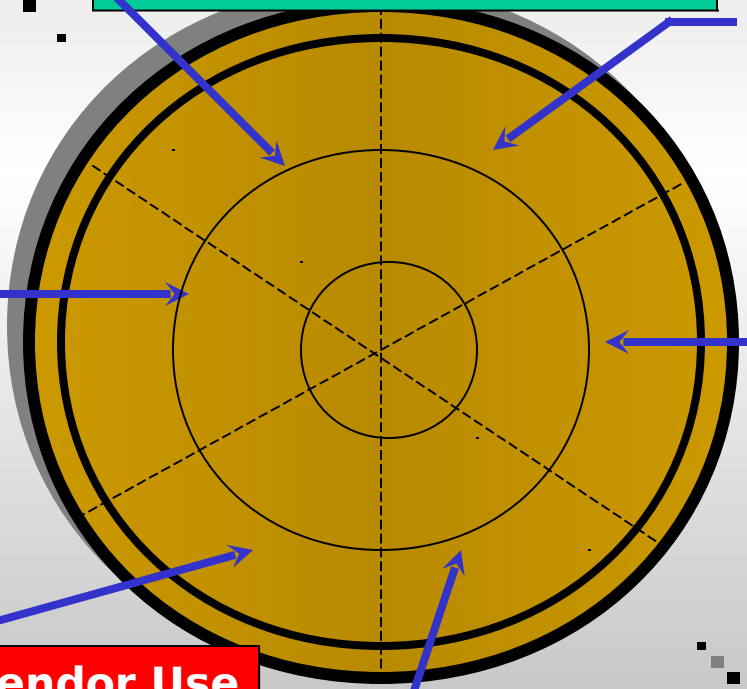
AIT

Nameplate Data

Computer, Air Data CPU-175/A
P/N 50-100-01 SERNO 0152
MFR K0656 CONTR F33657-85C-0025

Scheduled Removal Component Card*

Contact Memory Button CMB



Maintenance History**

Warranty Data

CMB Stats:
- 2k,8k,32k
- ~$7-$13 each
- Read/Write
- Dual CMB/BC Reader $1200

*Electronic Logset In Aviation

Available for Vendor Use

Available for Future Navy Use

**UseTBD within aviation maintenance

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SNT System Status

UNITED STATES NAVY SERIAL NUMBER TRACKING
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- Database Access:
  - NALCOMIS, LMDSS, DMDS, FACTS, ATAC, CAV, R-RAM
  - UICP-P, UICP-M, FIMARS
  - Coming Soon – LCAV, ILSMIS, CDMD-OA, STS
- Queries available: Asset visibility (Retrograde, IMA, In

Warranty, Aviation Maintenance History

- Recent Enhancements:
  - Carcass Watches/Automatic email capability
  - Other Decision Support Reports
  - Link to UICP database

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Demonstrations

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H-60/HSL-40:

- Demonstrate Optimized-Organizational Maintenance Activity (O- OMA) Automatic Identification Technologies (AIT) interfaces
- Track 25 marked components

SQQ-32 SONAR on MCM's/MHC's

- 13 components marked for retrograde tracking

HOSS Camera (AN/SXY-1):

- Contract language and drawing includes Contact Memory Button (CMB). SNT in new production environment

CAMS II A5 Module:

- First introduction in submarine community

Points of Contact
http://www.snt.navsup.navy.mil

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UNITED STATES NAVY SERIAL NUMBER TRACKING SNT

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